

CLAIMS:

1. A display device (1) having pixel elements comprising a luminescent material (7) for emitting light when excited by excitation means, each one of said pixel elements being provided with modulating means (5,9) for modulating an emission of light by the luminescent material.

2. A display device (1) as claimed in claim 1, wherein the excitation means comprise means (11) for generating electromagnetic radiation.

3. A display device (1) as claimed in claim 2, wherein the means (11) for generating electromagnetic radiation are comprised in the display device.

4. A display device (1) as claimed in claim 1, wherein the excitation means comprise means for generating an electric field.

5. A display device (1) as claimed in claim 1, wherein the modulating means (5,9) comprise means for applying an electric field to said luminescent material (7).

6. A display device (1) as claimed in claim 4, wherein the pixel elements further comprise electrodes (5,9) which are provided to the luminescent material (7), the electric field being generated by applying a voltage to the electrodes (5,9).

7. A display device (1) as claimed in claim 6, wherein at least one of the electrodes (5,9) comprises a transparent material.

8. A display device as claimed in claim 1, wherein a thickness of a layer of the luminescent material (7) ranges between 10 and 100 nm.

9. A display (1) device as claimed in claim 5, wherein an electric field strength of the electric field varies between zero and 400 MV/m.

10. A display apparatus, comprising:

a display device (1) as claimed in claim 1;

means (15) for controlling said excitation means (11); and

5 means (13) for controlling said modulating means (5,9) in response to a display signal (S) applied to the display apparatus (1).

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